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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/743,314	12/23/2003	Reiki Watanabe		5573
7590 04/02/2009 George A. Loud, Esquire			EXAMINER	
BACON & THOMAS Fourth Floor 625 Slaters Lane Alexandria, VA 22314-1176			KACKAR, RAM N	
			ART UNIT	PAPER NUMBER
			1792	
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			04/02/2000	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

### Application No. Applicant(s) 10/743,314 WATANABE, REIKI Office Action Summary Examiner Art Unit Ram N. Kackar 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 31 July 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 15-35 is/are pending in the application. 4a) Of the above claim(s) 26-31 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 15-17, 21-25 and 33-34 is/are rejected. 7) Claim(s) 18-20,32 and 35 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date \_\_\_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other:

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#### DETAILED ACTION

### Claim Objections

 Claims 26-31 are objected to because of the following informalities: Claims 26-31 were withdrawn as non elected claims. However identifier designations for these claims is still "previously presented". Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 25 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 25 recites the limitation "control means for adjusting partial pressure of at least one of the reaction gas, the purge gas and the floating gas". There is insufficient antecedent basis for this limitation in the claim.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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 Claims 15-17, 21-25 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,991,934 to Walton et al. ("Walton").

Walton teaches a vessel having at least one fluid discharge port 20; a substrate holder 32 within the vessel 10 for supporting a substrate thereon; and a rotor 22 provided between the substrate holder and a side wall of the vessel, rotatably mounted for rotation around the substrate holder and having a vent hole or vent notch 26; and a rotary drive for rotating the rotor through shaft 40 (Col 2 lines 4-16), thereby alternately bringing the vent hole or vent notch into communication with the fluid discharge port for discharge of a fluid onto a substrate supported by the substrate holder and closing the at least one fluid discharge port. (See, for example, Fig. 6, 7). Walton further teaches processing fluid and fluid ports. (See, for example, col. 1, lines 12-28). Further substrate holder 32 is attached to shaft 24 to rotate independently (Fig 8).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to utilize gas and gas discharge ports with the teachings of Walton

The suggestion/motivation would have been that fluids include gases and the teachings of Walton are not limited to liquids.

For claim 21, Walton teaches means for adjusting pressure and suppressing pressure variations. (See, for example, col. 2, lines 34-40).

Regarding claim 22, Walton teaches the substrate holder 32 is supported by an axially extending stem 24 defining a central axis, and the substrate holder is rotated around the central axis. (See, for example, Fig. 7).

For claim 23, Walton teaches means for heating 41 the substrate supported on the substrate holder. (See, for example, Fig. 6).

Regarding claim 24, Walton teaches exhaust means for reducing pressure inside of the vessel. (See, for example, Fig. 6).

Claims 33-34 are directed to an intended use.

### Allowable Subject Matter

Claims 18-20, 32 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

Applicant's arguments filed 1/16/2009 have been fully considered but they are not persuasive and moot in view of removal of rejections against claims indicated in "allowed subject matter".

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The

examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ram N Kackar/

Primary Examiner, Art Unit 1792